
INFORMATION MEMORANDUM

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Technologies Overview

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New Zealand is one of the last “pure” lands in the world and the people have a strong sense of ecological and environmental responsibility to preserve that which what cannot be replaced.



Preservation of this beautiful country and its natural surrounds, is governed by some of the most stringent environmental protection regulations and tolerances in the world to safeguard soil, water and air.



Strict Government laws and conditions concerning hazardous waste management and treatment are placed on industry and the private sector.

New Zealanders however traditionally embrace environmental protection, and environmental services companies promote technological innovation and development in support of a nationwide commitment to establish circular economy projects and green manufacturing practises.

New Zealand is a small country, however, internationally it is recognised and highly regarded as a nation that excels in producing innovative, leading edge technologies for a diverse range of global industries.



An example of technology supremacy, is the yachting IP developed in New Zealand that in 2017 won back from the USA the **America's Cup** which is the largest international sailing event and oldest sporting trophy in the world.

March 2021 New Zealand has successfully defended the America's Cup in Auckland with stunning new design innovations. Wining was decided by the team with the best technology



17 March 2021: Emirates Team New Zealand Win The America's Cup Beating Luna Rossa Italy

MXC TECHNOLOGIES

It is in the development of highly innovative technology “IP” (Intellectual Property), that New Zealand company MXC has vast experience, a proven international knowledge base, and unique chemical and process engineering methods that by design are directly associated with global Environmental Protection and new generation circular economy Green Manufacturing.

MXC Environmental Protection

MXC has substantial know-how and proven methods and process technologies in Liquid and Solid Waste Treatment, Disposal, and Recycling that include:

- **Site / Soil Decontamination and Restoration**
 - Heavy Metal Contamination
 - Hydrocarbon Contamination
 - Asbestos Contamination
- **Waste Recovery and Recycling**
 - Waste Oil Recovery
 - Waste Solvent Recovery
 - Heavy Metals Recovery
- **Liquid / Solid Waste (hazardous and non-hazardous) Treatment**
 - Inorganic, Organic, Combination of Both Treatment

MXC methods and processes include:

- Biological Treatment
- Chemical / Physical Treatment
- Oxidation / Reduction
- Hydrolysis
- Stabilisation
- Solidification
- Recovery / Recycled

MXC Intelligent Green Manufacturing

In harmony with the vision of creating environmental protection solutions, a primary focus has also been on designing and developing a new generation of circular economy, upcycling eco technologies:

- Design out waste and pollution
- Keep products and materials in use
- Regenerate natural systems

As an example of the experience and know-how that MXC possesses, a revolutionary Copper Powder manufacturing process has been purpose-designed and developed that delivers all the environmental, efficiency and commercial criteria of a leading edge circular economy business.

This unique, proven and tested invention, is the result of several years of intense research, concept development, process and chemical engineering design, and successful product output upscaling; a green manufacturing process not seen anywhere before in the global copper powder industry.

Key Technology Features:

- The fundamental design objective behind the development of this new generation eco technology, is the uncompromising care and protection of the global environment.
- From this starting point, entirely new and highly innovative processing and chemical engineering concepts have been adopted to solve and surpass old and now outdated manufacturing methods and practices that are highly inefficient and continue to pollute the environment.
- The eco technology focus and purpose is to substantially improve economic performance while eliminating harm to the environment by increasing efficiencies in the selection and use of recycled raw materials, and minimising production plant energy inputs.
- Adding value to processing waste streams by using newly developed methods, and recycling back to industry various high demand chemical products.
- A strict control over negative manufacturing impacts on ecosystems by way of new and highly effective treatment methods that are applied to the end of process waste streams.

MXC Intellectual Property

Eco Technologies and Environmental Solutions have been developed exclusively by **Jafar Davari**, Company Co-Founder and Executive Director, and **International Patent Applications** reserved for exclusive Environmental Solutions and Intelligent Green Manufacturing technologies

MXC Process & Product Validations

Environmental Solutions **results** and Intelligent Green Manufacturing **products** are ultimately validated exclusively by **SGS International**

MXC Company Strength

The strengths of the company are:

- The exclusive environmental technologies and solutions that Co-Founder and Executive Director **Jafar Davari** has developed over decades of international Government and Private hi-tech chemical engineering programmes and projects in **New Zealand, USA and Iran**.
- The exceptional commercial experience and profiles of the **New Zealand Company Directors and Shareholders**.
- The backing of the **New Zealand Government** that supports **MXC** and the environmental technology initiatives being pursued in **China**.

MXC China Business Focus

Company Co-Founders and Executive Directors, David Hall and Jafar Davari, have visited China on several occasions to meet with leaders of the Copper Metal Powder and Environmental Protection industries and large SOE Corporations to discuss commercial opportunities to acquire **MXC's** eco technologies and environmental protection solutions.

The unforeseen COVID-19 event early 2020 required **MXC** to revisit and revise its commercial plans in China, and in early 2021 new cooperation agreements and strategic relationships were formalised with parties directly aligned to **CASC (Aerospace)** and **Everbright Group**.

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